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MTSU Clean Energy Initiative Project Funding Request

There are five (5) sections of the request to complete before submitting. See <http://www.mtsu.edu/~sga/cleanenergy.shtml> for funding guidelines. Save completed form and email to cee@mtsu.edu or mail to MTSU Box 57.

| 1. General Information | |
|--|----------------------------------|
| Name of Person Submitting Request Kristin England | |
| Department/Office Engineering Services | Phone # (Office) 615-898-2306 |
| MTSU Box # Box 32 | Phone # (Cell) |
| E-mail kristin.england@mtsu.edu | Submittal Date 9/27/24 |

| 2. Project Categories (Select One) | |
|--|---|
| Select the category that best describes the project. | |
| <input checked="" type="checkbox"/> Energy Conservation/Efficiency | <input type="checkbox"/> Sustainable Design |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Other |
| <input type="checkbox"/> Renewable Energy | |

| 3. Project Information |
|---|
| <p>a. Please provide a brief descriptive title for the project.</p> <p>b. The project cost estimate is the expected cost of the project to be considered by the committee for approval, which may differ from the total project cost in the case of matching funding opportunities. Any funding request is a 'not-to-exceed' amount. Any proposed expenditure above the requested amount will require a resubmission.</p> <p>c. List the source of project cost estimates.</p> <p>d. Provide a brief explanation in response to question regarding previous funding.</p> |
| 3a. Project Title Chilled Water Modeling Software |
| 3b. Project Cost Estimate \$6,200 |
| 3c. Source of Estimate Quote from supplier |
| 3d. If previous funding from this source was awarded, explain how this request differs? |

4. Project Description

(Completed in as much detail as possible.)

- a. The scope of the work to be accomplished is a detailed description of project activities.
- b. The benefit statement describes the advantages of the project as relates to the selected project category.
- c. The location of the project includes the name of the building, department, and/or specific location of where the project will be conducted on campus.
- d. List any departments you anticipate to be involved. Were any departments consulted in preparation of this request? Who? A listing may be attached to this form when submitted.
- e. Provide specific information on anticipated student involvement or benefit.
- f. Provide information for anticipated future operating and/or maintenance requirements occurring as a result of the proposed project.
- g. Provide any additional comments or information that may be pertinent to approval of the project funding request.

4a. Scope: Work to be accomplished

Purchase a chilled water modeling software that can be used to model our chilled water usage on campus. Systems Engineer to model the campus and provide findings to others such as the Energy Services Director, Energy Management Systems Supervisor, and the Engineering Services Executive Director.

4b. Scope: Benefit Statement

Chilled water is supplied by the main plant and satellite plant to the various buildings around campus for cooling. By modeling the campus usage and chiller/pump equipment we will be able to find ways to run more efficiently and therefore decrease our water consumption and energy usage. It will also help us make energy conscious decisions as our campus continues to expand and require more chilled water.

| 4. Project Description (continued) |
|---|
| 4c. Location of Project (Building, etc.) All of campus |
| 4d. Participants and Roles Kristin England - Systems Engineer |
| 4e. Student participation and/or student benefit None |
| 4f. Future Operating and/or Maintenance Requirements The software purchase is a one-time cost. We may want to purchase upgrades in the future, but no additional costs are anticipated at this time. |
| 4g. Additional Comments or Information Pertinent to the Proposed Project None |

5. Project Performance Information

Provide information if applicable.

- a. Provide information on estimated annual energy savings stated in units such as kW, kWh, Btu, gallons, etc.
- b. Provide information on estimated annual energy cost savings in monetary terms.
- c. Provide information on any annual operating or other cost savings in monetary terms. Be specific.
- d. Provide information about any matching or supplementary funding opportunities that are available. Identify all sources and explain.

5a. Estimated Annual Energy Savings (Estimated in kW, kWh, Btu, etc.)

Unknown at this time.

5b. Annual Energy COST Savings (\$)

Unknown at this time.

5c. Annual Operating or Other Cost Savings. Specify. (\$)

Unknown at this time.

5d. Matching or Supplementary Funding (Identify and Explain)

None